C 440
TUNER

C 440
TUNER

SERVICE MANUAL

NAD

SERVICE SAFETY PRECAUTIONS

SAFETY CHECK OUT

(Only U.S.A. model)

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit.

Parts marked with the symbol ⚠ are critical with regard to the risk of fire and electric shock. Replace only with parts recommended by the manufacturer.

NOTE:

<*AH> : U.S.A., CANADIAN MODEL ONLY.
<*C> : EUROPEAN MODEL ONLY.
<*B1> : AUSTRALIAN MODEL ONLY.
<*B> : U.K. MODEL ONLY.

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SPECIFICATIONS

Test conditions

A: Power Supply Voltage & Frequency
AH Type ———— 120V / 60Hz
C,B,B1 Type ———— 230V / 50Hz
B:Temperature & Humidity
Temperature ——— 5 ~ 35 °C
Humidity ———— 45 ~ 85 % RH
C:Modulation
FM Mono 75.0kHz Deviation (Mod.=1kHz)
Stereo L + R = 67.5kHz Deviation (Mod.=1kHz)
Pilot = 7.5kHz Deviation (19kHz)
RDS = 1.0kHz Deviation (57KHz) (B1,B,C)
AM 400Hz, 30%

D: Reduce the following value from signal generator output readings
FM 75ohms ———— 0dB
300ohms ———— -12dB
AM Loop Antenna ——— -26dB
E: B/B1 type measurement is the same as C type unless otherwise notes.
F:Test point number in RF circuit means the following.
P141 ———— FM Detector
P161 ———— FM Pilot

「AM SECTION」

Tuning Range	Fmin. AH / C, B, B1		530 / 522 kHz
	Fmax. AH / C, B, B1		1710 / 1611 kHz
			Freq. Step: AH/C, B, B1 = 10/9 kHz
			Changing the AM band step

	to 10kHz step	to 9kHz step
R737	10k ohm	5.6k ohm

Maximum Sensitivity	603, 990, 1404 kHz (600, 990, 1400)	60dB/m max.	Output=-30dBV Input=60dB/m
Usable Sensitivity	603, 990, 1404 kHz (600, 990, 1400)	15dB min.	S/N
Sensitivity Inbalance		15dB max.	Usable sensitivity
Image Rejection Ratio	1404/1400kHz	28dB min.	
IF Rejection Ratio	600/603kHz	40dB min.	
Selectivity	990±9kHz	24dB min.	
Signal to Noise Ratio	990kHz	40dB min.	Input=100dB/m
Fixed Output Level	990kHz	100mV min.	Input=100dB/m
T.H.D.	990kHz	1.5% max.	Input=100dB/m

「FM SECTION」

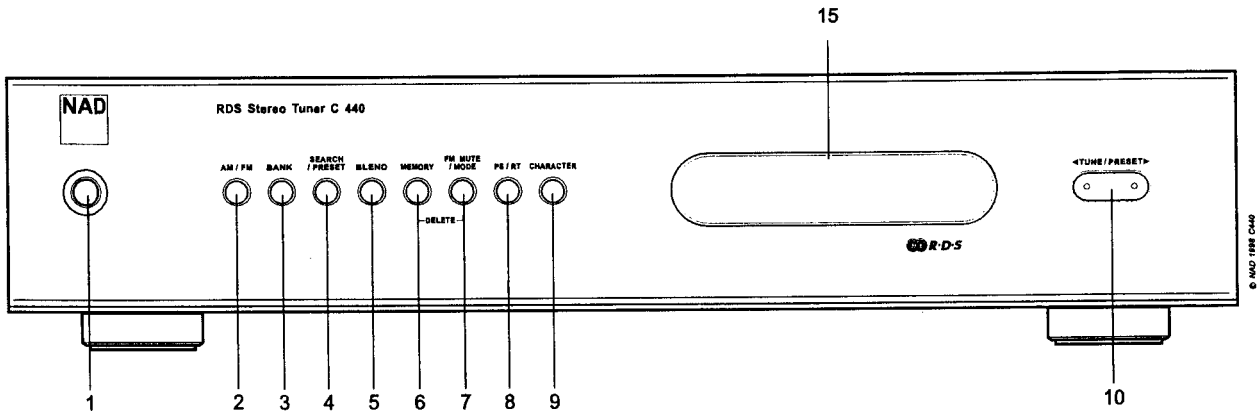
Tuning Range	Fmin.		87.5 MHz	Freq. Step(Manual:25KHz)
	Fmax.		108.0 MHz	Auto:AH/C, B, B1=100/50KHz
Usable Sensitivity	87.5,98,108 MHz		30dB min.	Input=12dB μV
Sensitivity Inbalance			8dB max.	Usable Sensitivity
3dB Limited Sensitivity	98MHz		6dB μV max.	
IF Rejection Ratio	90MHz		70dB min.	
Selectivity	98MHz		40/65dB min.	(AH/ C,B,B1)
Signal to Noise Ratio	98MHz		64dB min.	Input=60dB μV
Fixed Output Level	98MHz	C,B,B1	750±250mV	Input=60dB μV
		AH	550±200mV	
Output L/R Inbalance	Fixed Output		2dB max.	Rec-Out Terminal
T.H.D.	98MHz	mono	0.7% max.	Input=60dB μV
		stereo	1.7% max.	

「FM STEREO」

MPX Separation	98MHz	30dB min.	Input=60dB mod.=1kHz
Blend	98MHz	13±3dB	Input=60dB mod.=1kHz (L/R Separation at Blend ON)
Capture Ratio	98MHz	3.5dB max.	Input=60dB
AM Suppression Ratio	98MHz	45dB min.	Input=60dB
Auto Stop Threshold	990kHz	0 dB/m max.	
	98MHz	23±3 dB	
Stereo Indi. Threshold	98MHz	23±3 dB	
Tuned Indi. Threshold	98MHz	23±3 dB	
Tuned Switching Width	98MHz	35±10kHz	Input=60dB μV

WARNING:TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FRONT PANEL CONTROLS

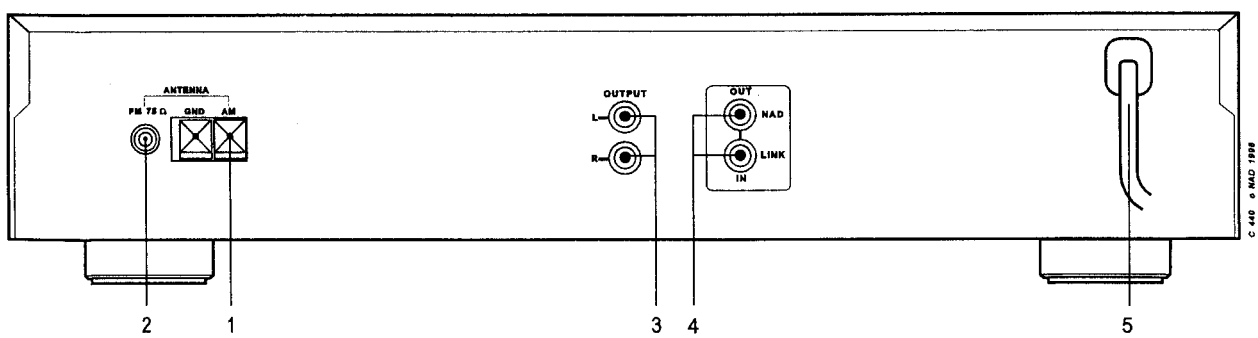


1. Power on / off
2. AM/FM
3. Bank
4. Search / Preset
5. Blend
6. Memory
7. FM Mute / Mode
8. PS / RT (for RDS version)
9. Character
10. Tune / Preset ◄ AND ► or Display (for non-RDS version)
15. Display panel

The lightning flash with arrowhead, within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.

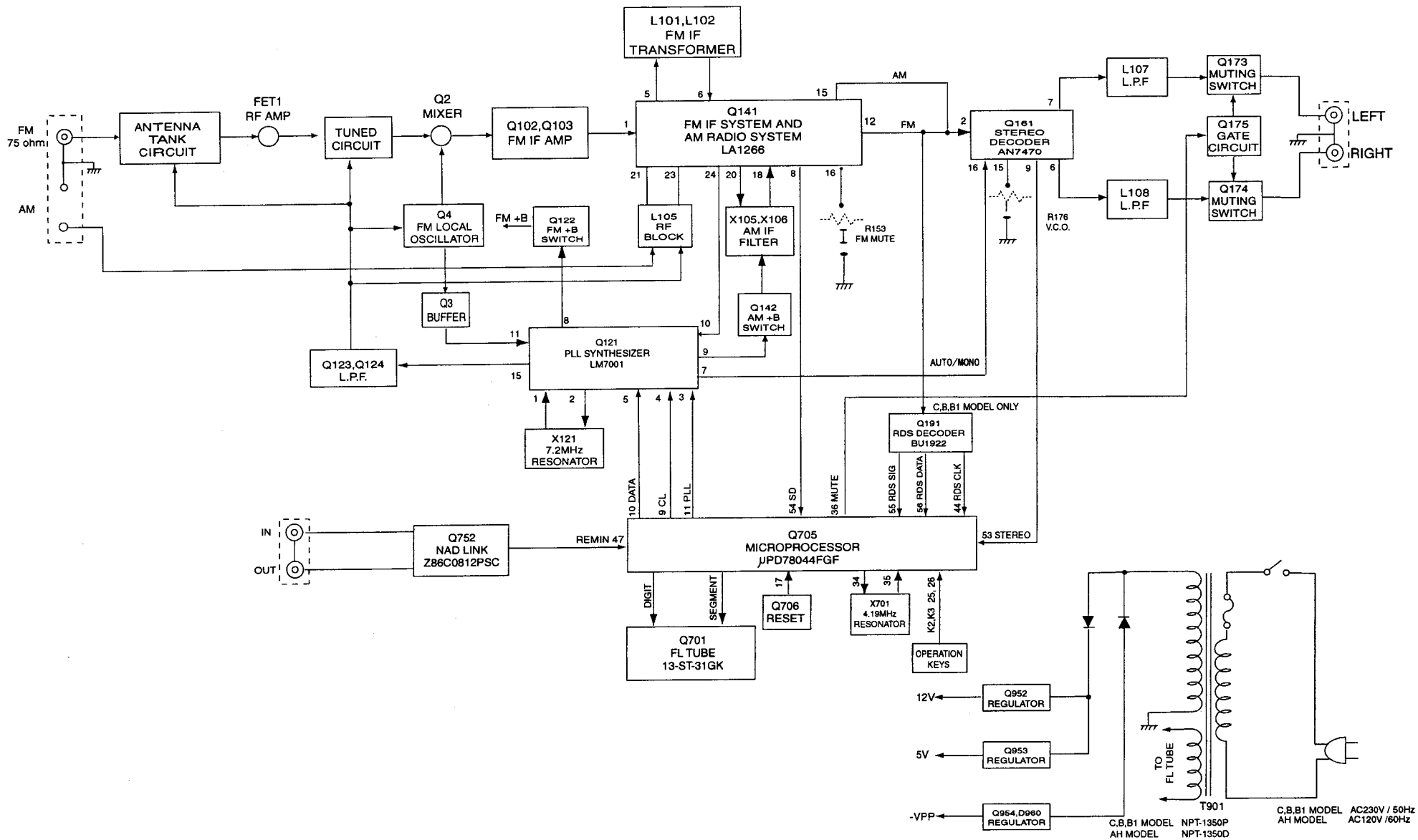
The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

REAR PANEL CONNECTONS

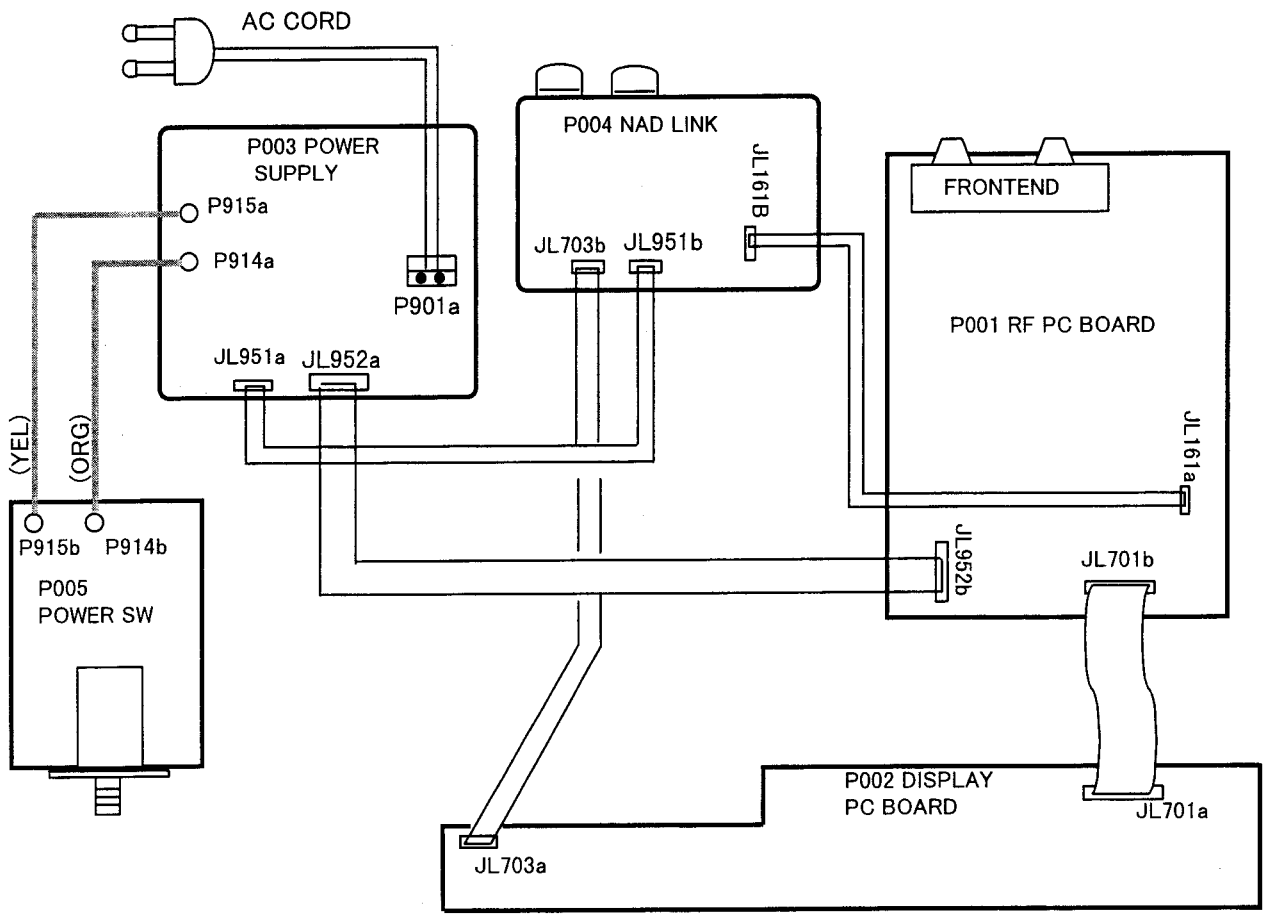


1. AM Antenna
2. FM Antenna
3. Output
4. NAD-Link in out
5. AC line cord

BLOCK DIAGRAM

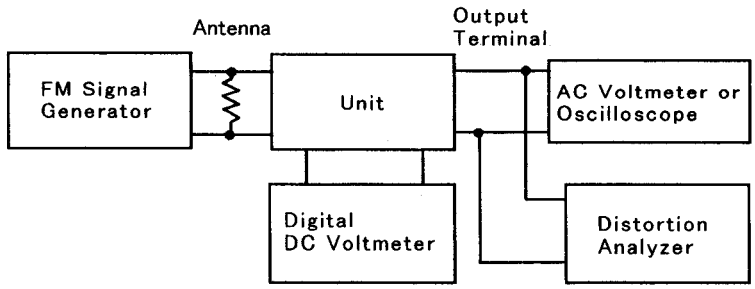


WIRING DIAGRAM

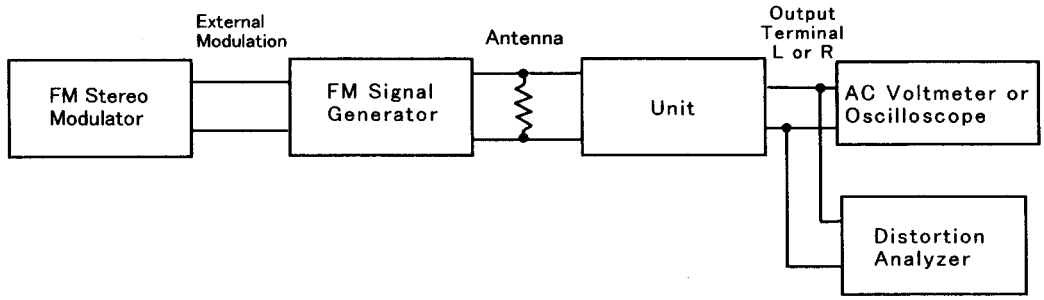


CONNECTION OF INSTRUMENTS

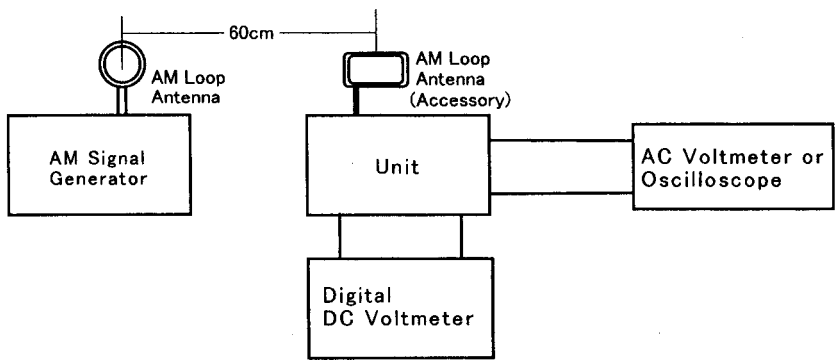
FM ADJUSTMENT



FM STEREO ADJUSTMENT



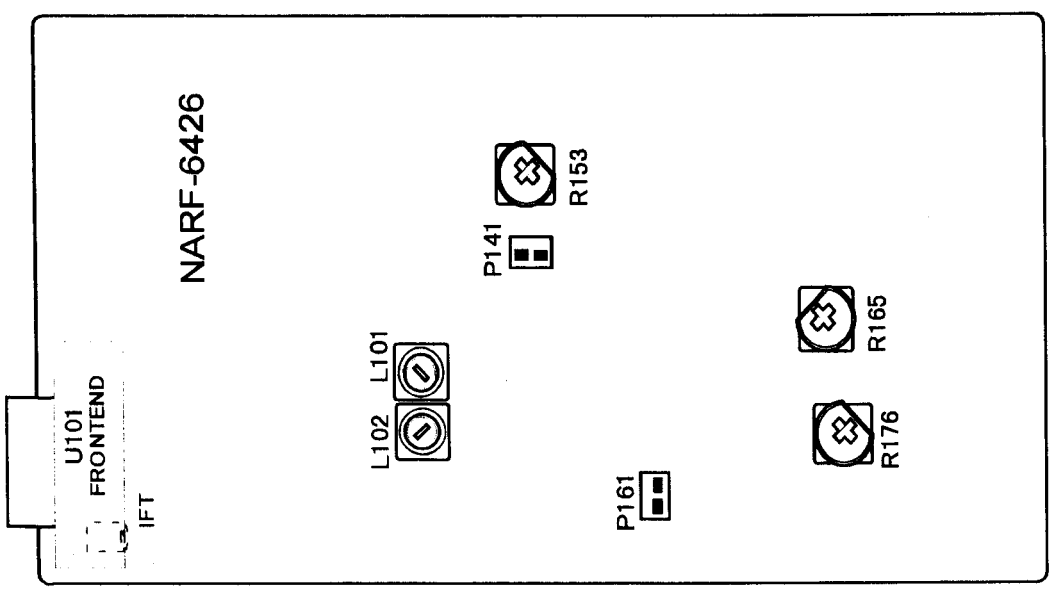
AM MEASUREMENT



ADJUSTMENTS AND ALIGNMENT POINTS

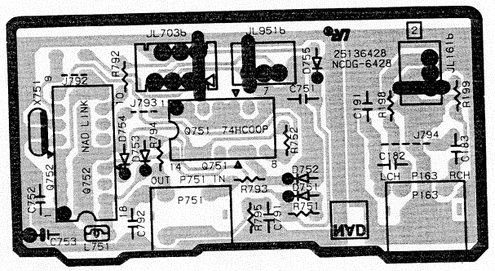
1. ADJUSTMENT OF FM BAND

a. Set the unit's frequency to 99.0MHz.
b. Connect a DC volt meter with P141.
c. Set FM MUTE/MODE SW to stereo.
d. Set SSG(Standard Signal Generator) frequency to 99.0MHz, output to 60dB μ V and connect to 75 ohm FM antenna terminal.
e.Turn the core of L101(NFIF-4087) so that the voltage can be within ±20mV.
f. Turn the core of L102(NFIF-4088) so that mono distortion goes minimum.
f. Repeat above items(e & f) a few times.
h. Connect a Frequency counter with P161.
I. Turn R176 so that the frequency can be within 19kHz±10Hz.
j. Set the output of SSG to stereo.
k. Turn IFT in the frontend(U101) within ±180 degrees so that stereo distortion can be minimum.
l. Adjust R165 and get maximum stereo separation.
m. Set SSG output to 16dB μ V.
n. Adjust R153 so that STEREO indicator turns ON. As an optional method, judging by wave form is admitted.
o. Repeat above items(m and n) a few times.

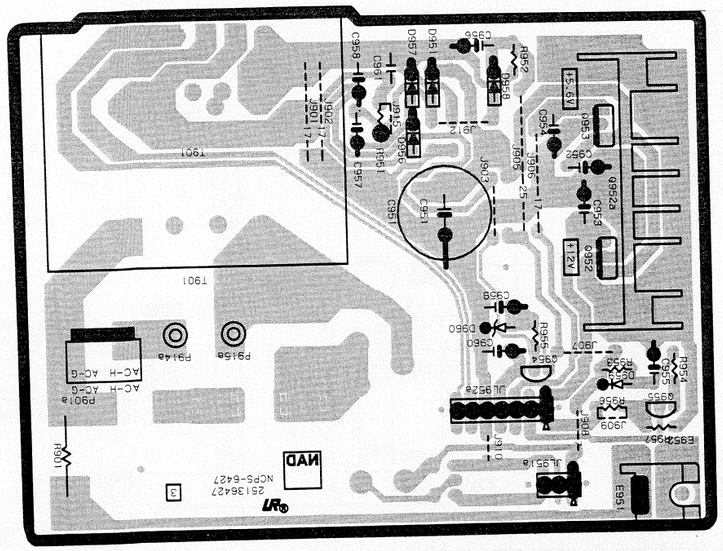


PCB LAYOUT

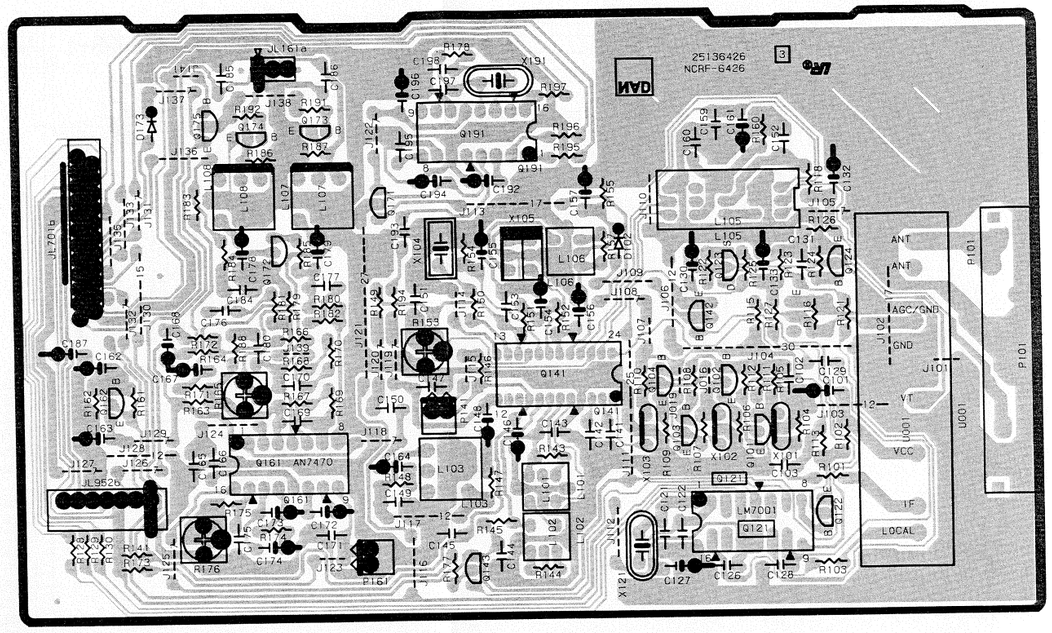
P004 : NAD link PC board NADG-6428



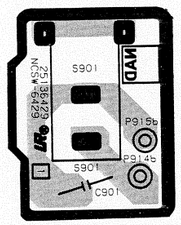
P003 : Power supply PC board NAPS-6427



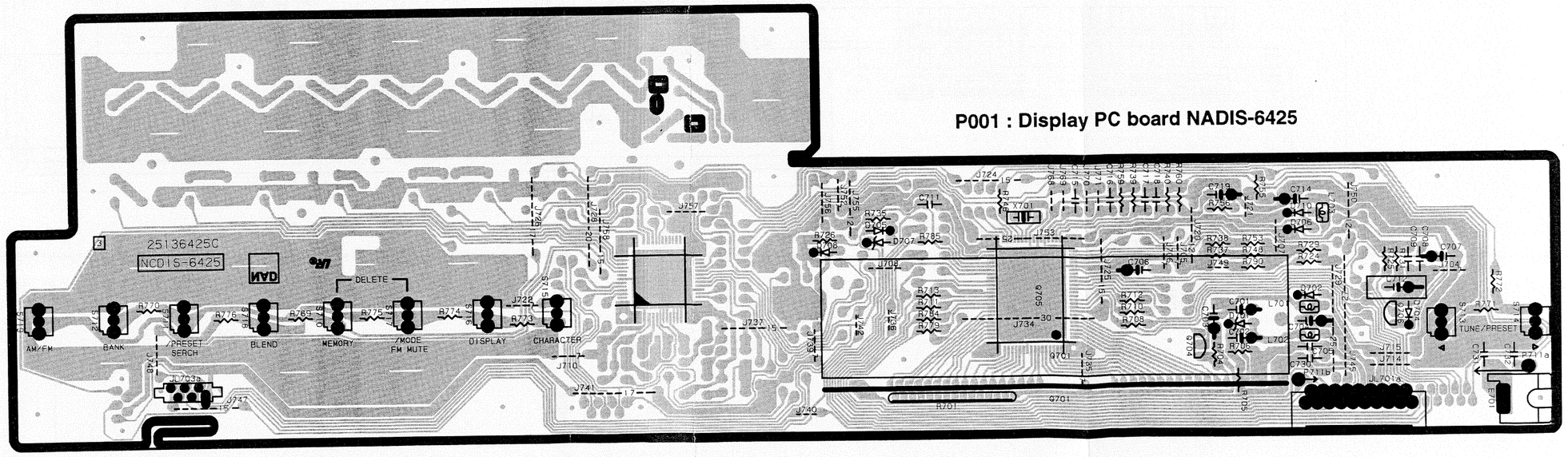
P002 : Tuner PC board NARF-6426



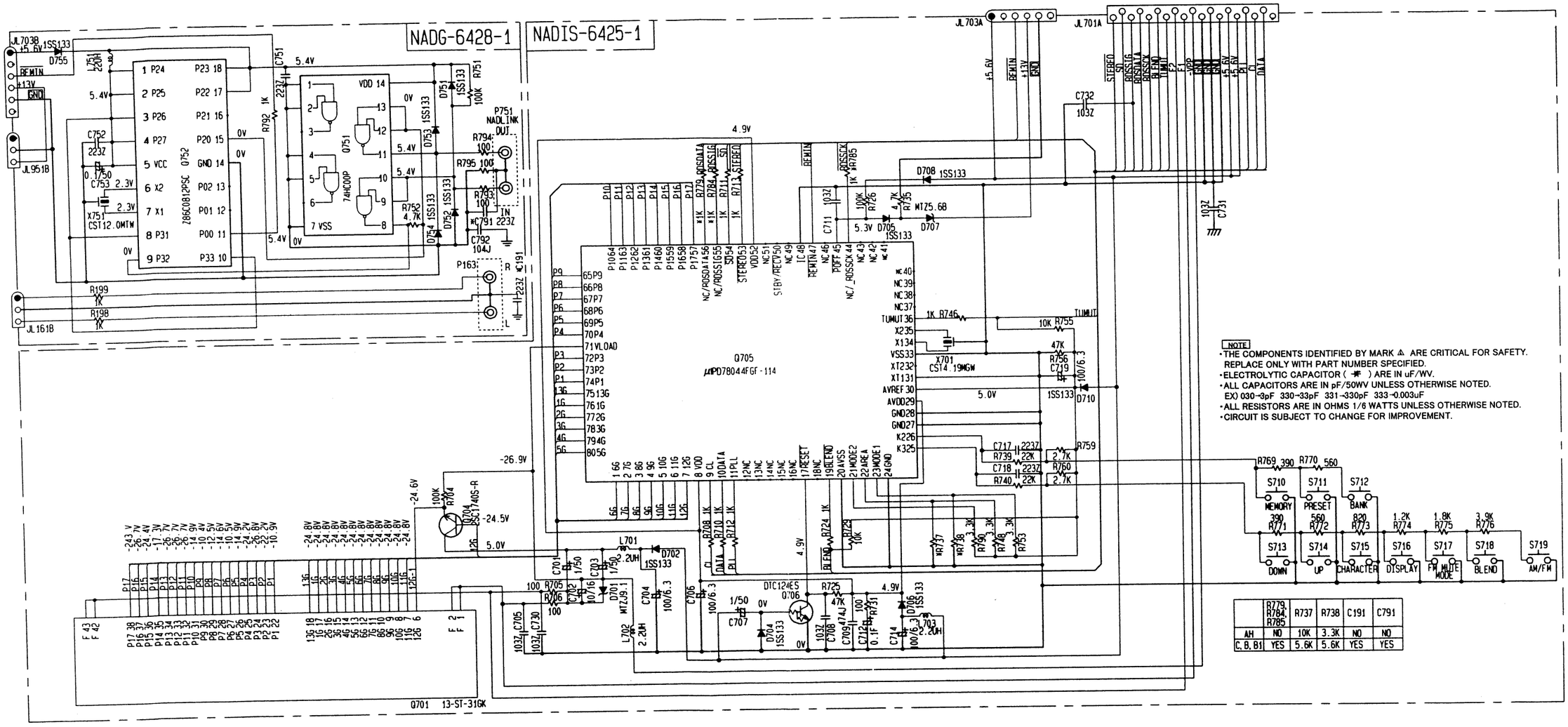
P005 : Switch PC board NASW-6429



P001 : Display PC board NADIS-6425



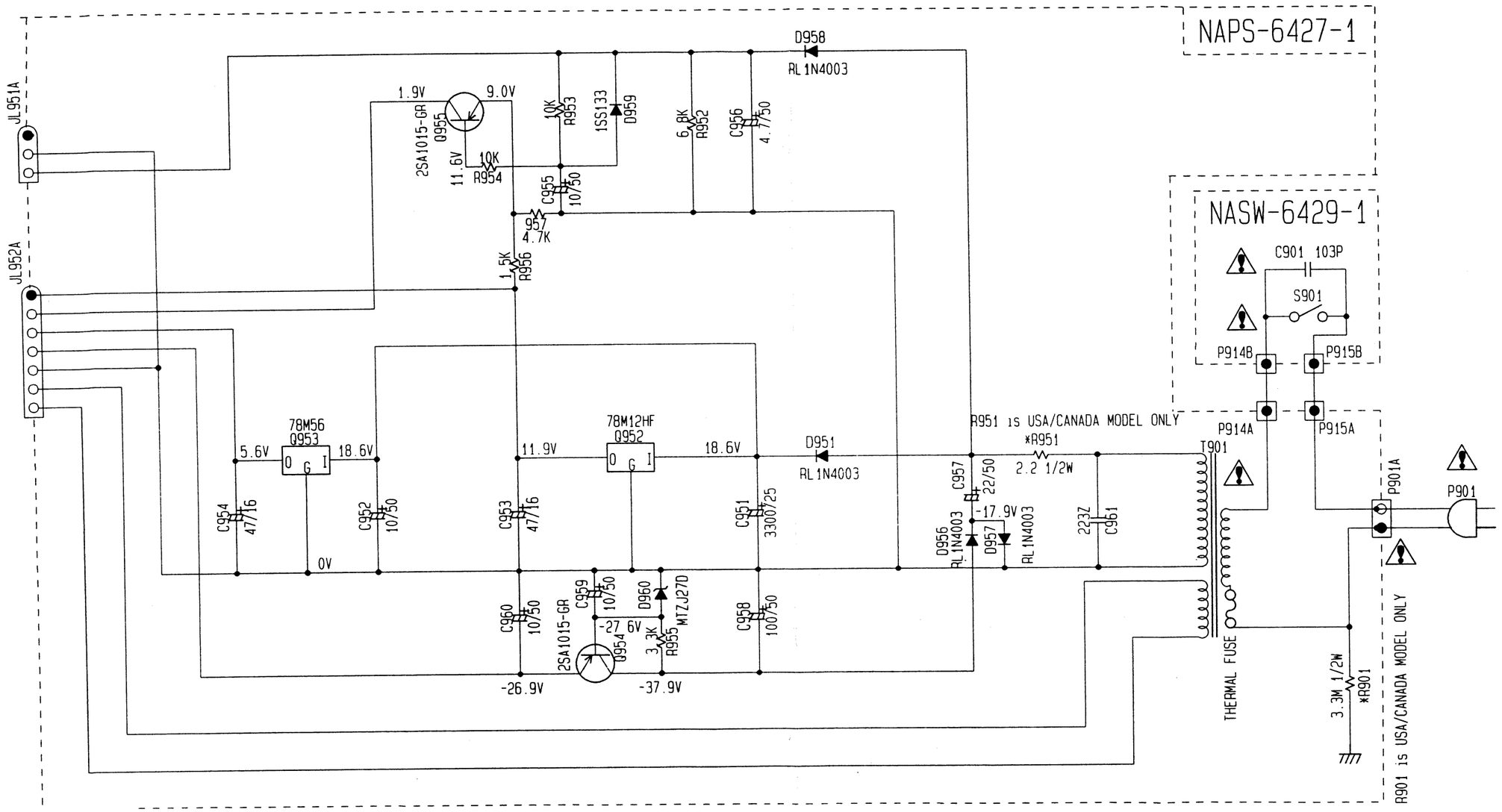
SCHEMATIC DIAGRAM(PART-1 DISPLAY SECTION)



	R779, R784, R785	R737	R738	C191	C791
AH	NO	10K	3.3K	NO	NO
C, B, B1	YES	5.6K	5.6K	YES	YES

NOTE
•THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY.
REPLACE ONLY WITH PART NUMBER SPECIFIED.
•ELECTROLYTIC CAPACITOR (-#-) ARE IN uF/WV.
•ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030-3pF 330-33pF 331-330pF 333-0.003uF
•ALL RESISTORS ARE IN OHMS 1/6 WATTS UNLESS OTHERWISE NOTED.
•CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

SCHEMATIC DIAGRAM(PART-2 POWER SUPPLY SECTION)



NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- ELECTROLYTIC CAPACITOR (-#F) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED. EX) 030-3pF 330-33pF 331-330pF 333-0.003uF
- ALL RESISTORS ARE IN OHMS 1/6 WATTS UNLESS OTHERWISE NOTED.
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

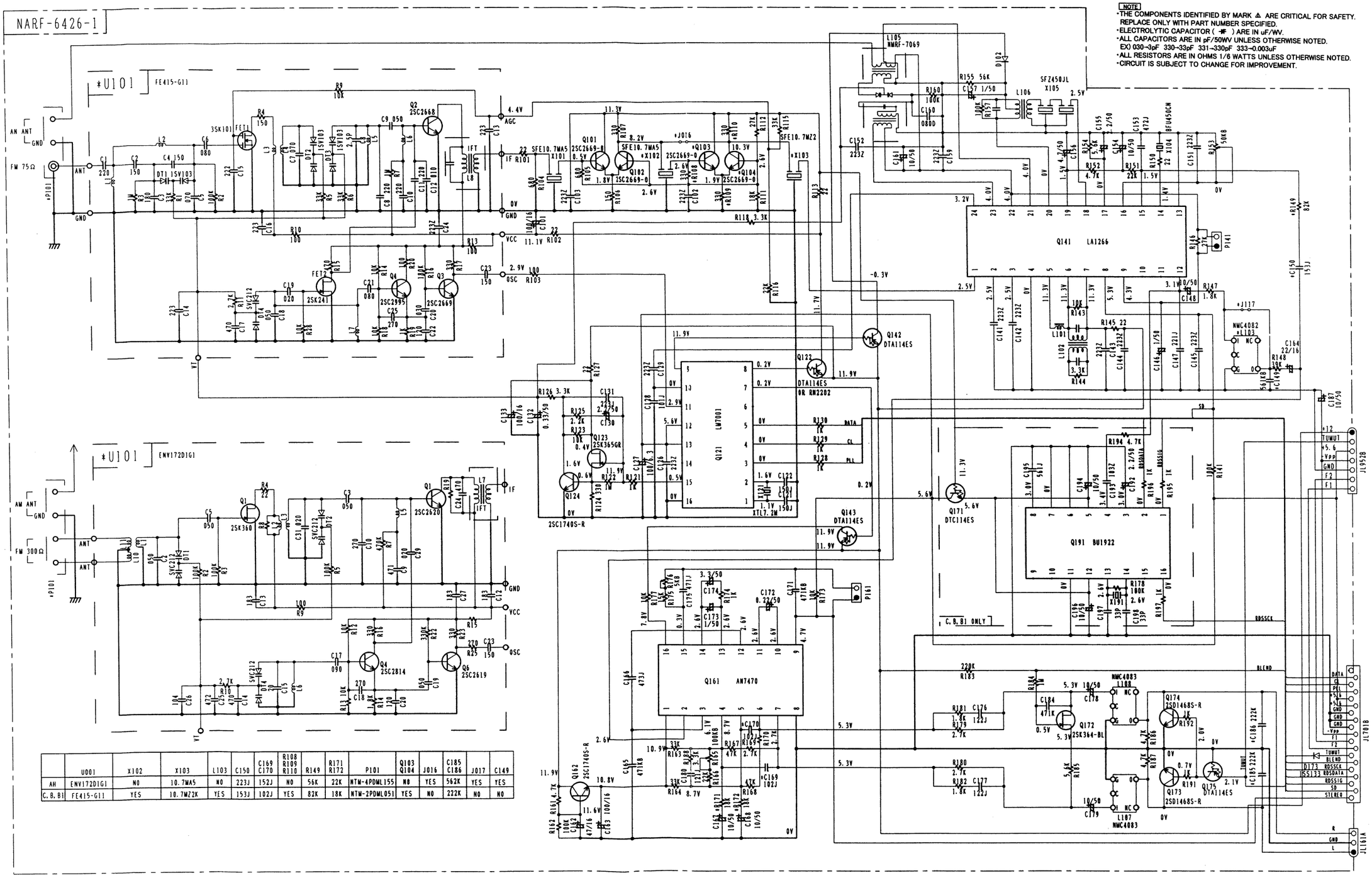
CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

ATTENTIION

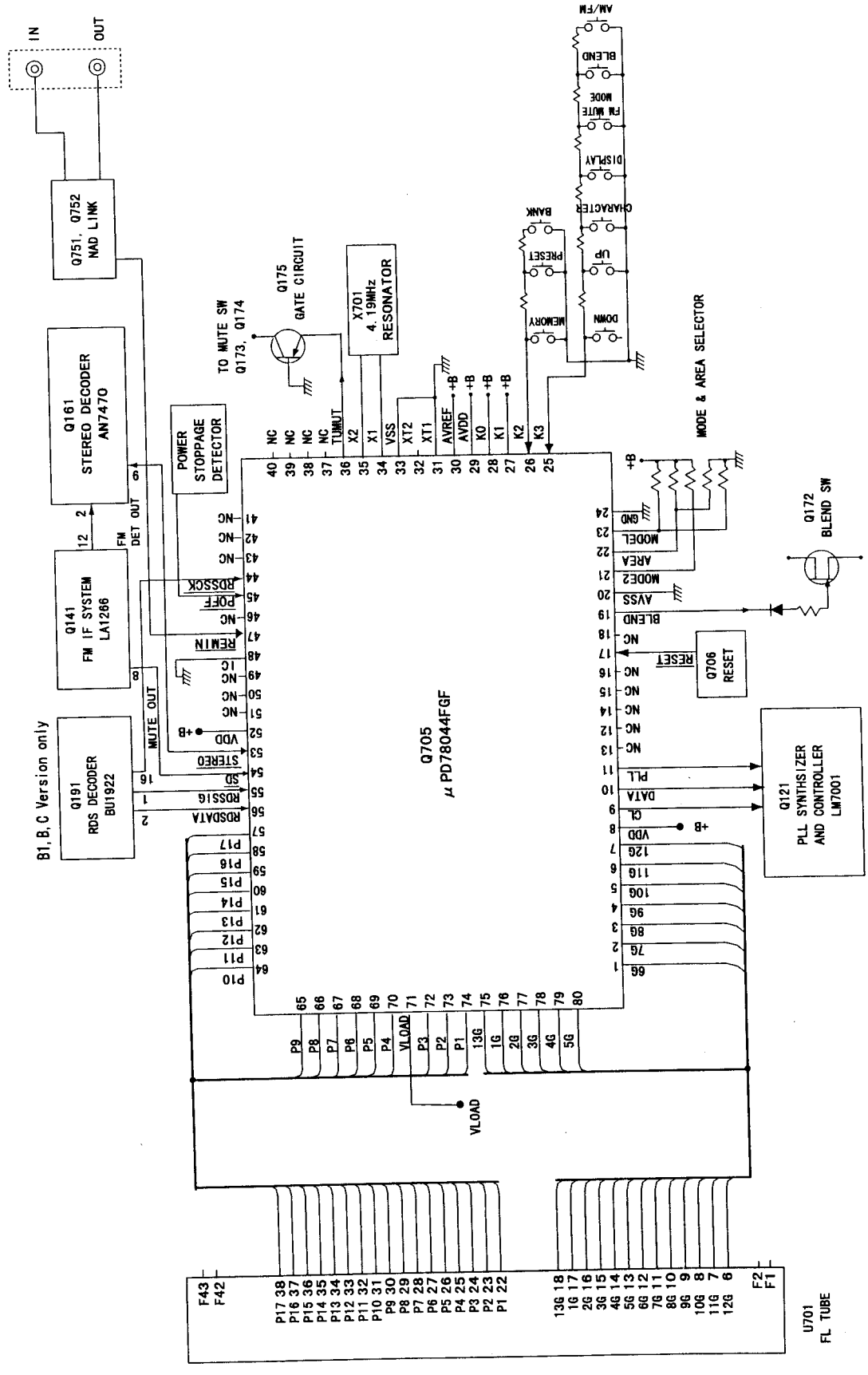
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

SCHEMATIC DIAGRAM(PART-3 RF,RDS SECTION)



	U001	X102	X103	L103	C150	C169 C170	R108 R109 R110	R149	R171 R172	P101	Q103 Q104	J016	C185 C186	J017	C149
AH	ENV172D1G1	NO	10.7MA5	NO	223J	152J	NO	56K	22K	NTW-4PDML155	NO	YES	562K	YES	YES
G, B, BI	FE415-G11	YES	10.7MZ2K	YES	153J	102J	YES	82K	18K	NTW-2PDML051	YES	NO	222K	NO	NO

MICROPROCESSOR-CONNECTION DIAGRAM



MICROPROCESSOR TERMINAL DESCRIPTION

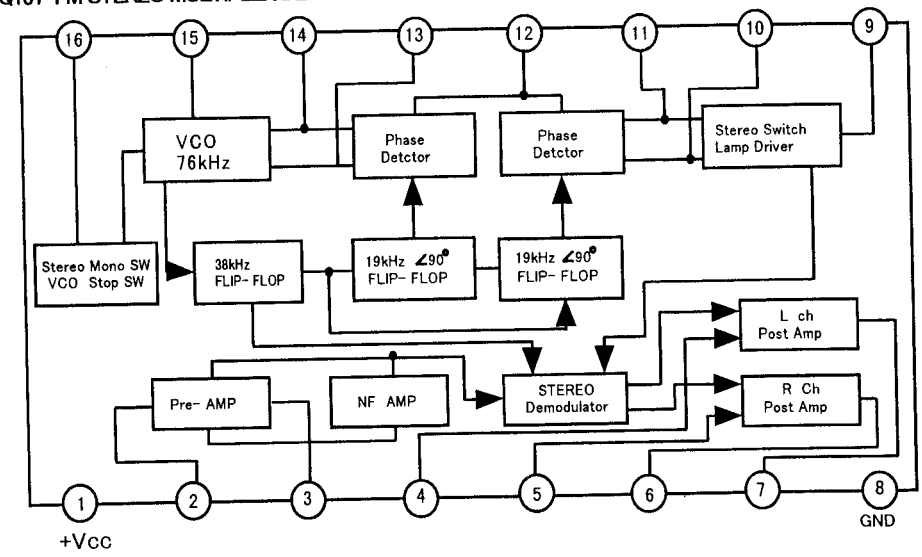
Q705: μ PD78044FGF

Pin No.	Function	I/O	Description
1	7G/6G	O	Grid control output pin. On at the high level.
2	6G/7G	O	Grid control output pin. On at the high level.
3	5G/8G	O	Grid control output pin. On at the high level.
4	4G/9G	O	Grid control output pin. On at the high level.
5	3G/10G	O	Grid control output pin. On at the high level.
6	2G/11G	O	Grid control output pin. On at the high level.
7	1G/12G	O	Grid control output pin. On at the high level.
8	VDD	-	Power supply pin. (+5V)
9	CL	O	Clock out pin. Connect to the terminals CK of function switch.
10	DATA	O	Data output pin. Connect to the terminals DATA of Q121(LM7001).
11	PLL	O	Chip enable output pin for PLL IC(Q121).
12 ~ 16			NC
17	$\overline{\text{RESET}}$	I	System reset input pin.
18			NC
19	BLEND	O	Output pin for blend controled signal.
20	AVSS	-	Ground pin of A/D converter.
21	MODE2	I	Initializing input of operation mode.
22	AREA	I	Initializing input of frequency-area. (8-erea)
23	MODE1	I	Initializing input of operation mode.
24	GND	I	GND
25	K3	I	Operation key connection pin.
26	K2	I	Operation key connection pin.
27	K1	I	Operation key connection pin.
28	K0	I	Operation key connection pin.
29	AVDD	-	Analogue power supply (+B)
30	AVREF	-	Reference voltage input pin.
31	XT1	-	Crystal connection pin for sub system clock resonator. (to ground)
32	XT2	-	Crystal connection pin for sub system clock resonator. (open connection)
33	VSS	-	Ground pin.
34	X1		Crystal connection pin for main system clock resonator.
35	X2		Crystal connection pin for main system clock resonator. Connect the ceramic osc.(4.19MHz)
36	TUMUT	O	Muting output pin.
37 ~ 43			NC
44	$\overline{\text{RDSSCK}}$	I	To connecting the SKC terminal of IC191(RDS -modulator).
45	$\overline{\text{POFF}}$	I	Power stoppage detector input pin.
46			NC
47	$\overline{\text{REMIN}}$	I	Remote-control signal input pin.
48	IC	-	Internal connection pin. Connect to the ground terminal.
49			NC
50			NC
51			NC
52	VDD		Power supply pin (+5V).
53	$\overline{\text{STEREO}}$		Detector input pin of FM stereo broadcast.
54	$\overline{\text{SD}}$		Detector input pin of broadcast more than muting level.
55	RDSSIG		When RDSEN=1: to connect the SIG-port of IC 191.
56	RDSDATA		When RDSEN=1: to connect the DATA-port of IC 191.
57 ~ 70	P18/P4	O	Segment output pins. On at the high level.
71	VLOAD	I	Pull down resistor connection pin of controller and driver of FL..
72 ~ 74	P4/P1	O	Segment output pins. On at the high level.
75 ~ 80	12G/1G	O	Grid output pins. On at the high level.

IC BLOCK DIAGRAM

Q161 FM STEREO MULTIPLEX DEMODULATOR

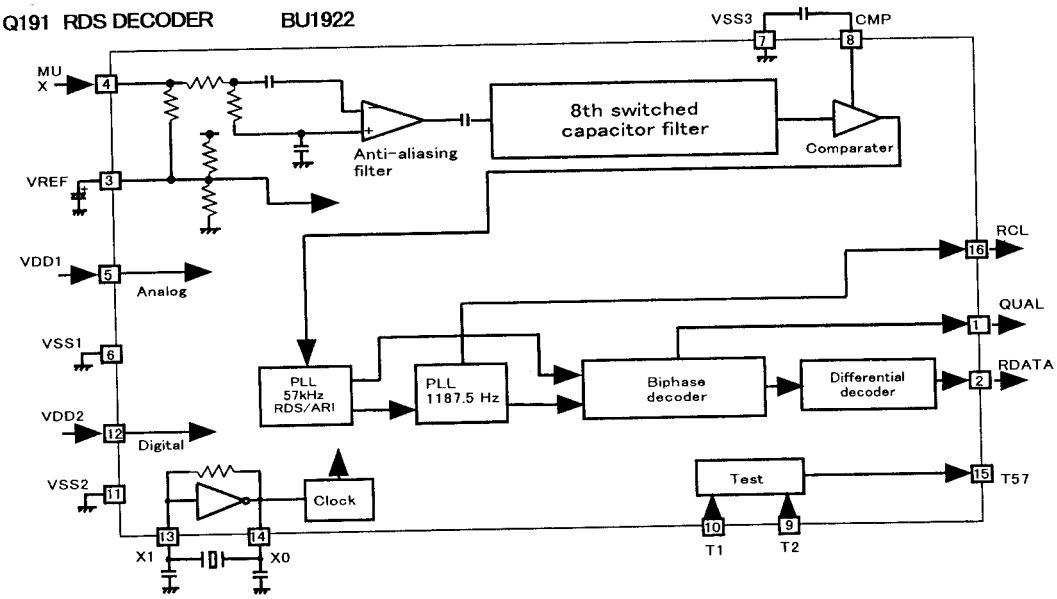
AN7470



PIN No.	PIN NAME
1	Vcc
2	Composite signal input
3	Buffer Amp. output
4	L-ch,Amp.feedback
5	R-ch,Amp. feedback
6	R-ch,Amp.output
7	L-ch,Amp.output
8	Ground
9	Stereo indicator and VCO freq. monitor.
10,11	Pilot detection low-pass filter
12	Pilot signal input
13	PLL low-pass filter
14	PLL low-pass filter
15	VCO RC time constant
16	Forced Mono. VCO killer

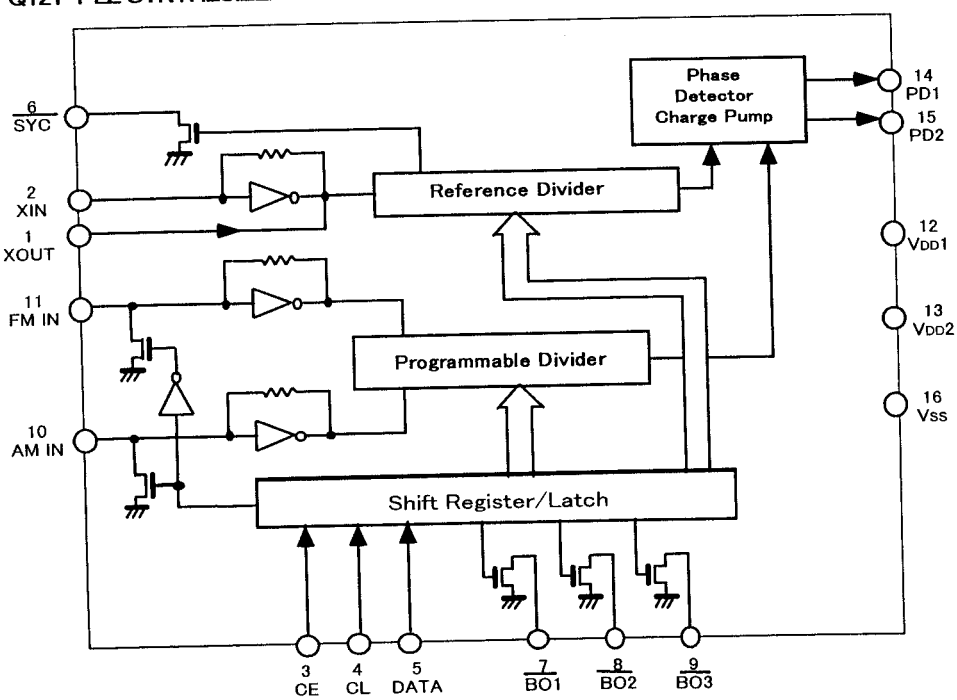
Q191 RDS DECODER

BU1922

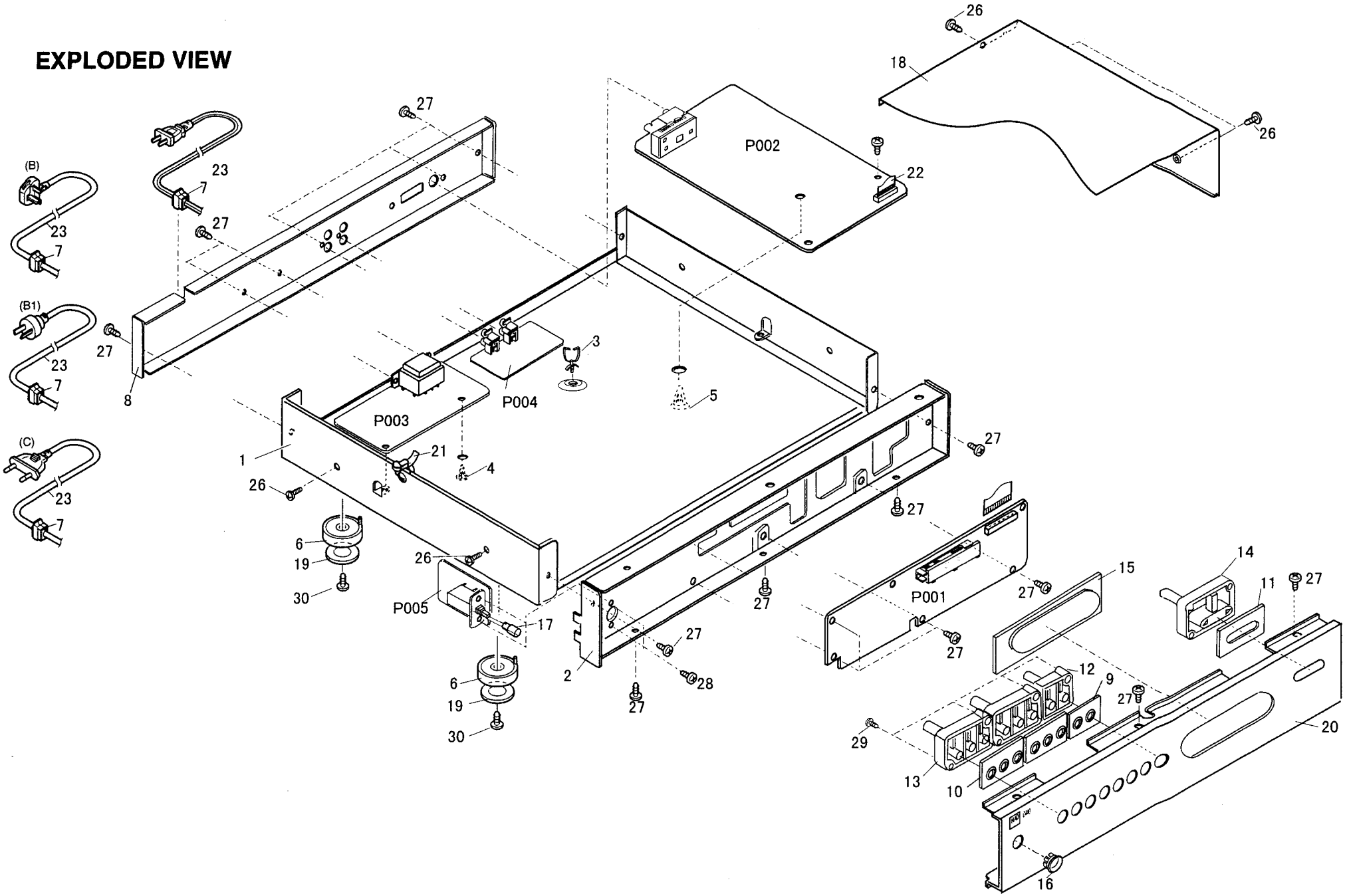


Q121 PLL SYNTHESIZER AND CONTROLLER

LM7001



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref.No.	Part No.	Q'ty	Description
1	27100365A	1	Chassis
2	27111083	1	Front bracket
3	27301778	1	Clamp HL-18-0(V-0)
4	27190266	1	Holder KGLS-12RF
5	27190511	1	Holder KGLS-16RF
6	27175306	4	Leg base
7	27300750	1	⚠ AC cord bushing S-RELIEF #2271
8*B1	27122497	1	Rear panel
8*B	27122497	1	Rear panel
8*C	27122497	1	Rear panel
8*AH	27122496	1	Rear panel
9	27267996	1	Guide (duo) DUO.BEZEL
10	27267997	2	Guide (Trio) TRIO.BEZEL
11	27267998	1	Guide (Racker) RACKER.BEZEL.
12	28325605	1	Button (Duo) DUO.BUTTONS.
13	28325606	2	Button (Trio) TRIO.BUTTONS.
14	28325607	1	Button (Racker) RACKER.BUTTONS
15	28191831	1	Clear plate (window) 424/724-1012-B
16	27267995	1	Guide (power) POW.BTN.BEZEL.
17	28325604	1	Button(power)

NOTE: THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

NOTE: <AH> : U.S.A., Canadian model only
<B> : U.K. model only
<B1> : Australian model only
<C> : European model only

Ref.No.	Part No.	Q'ty	Description
18	28184593A	1	Top cover 414AH
19	28141378	4	Cushion
20*B1,B,C	27212041	1	Front panel
20*AH	27212012	1	Front panel
21	260208		Binder(CLAMPER) UL
22	2047191512	1	Flexible flat cable NCFC7-191512
23*B1	253197HIT	1	⚠ AC cord AS-SAA <B1>
23*B	253198HIT	1	⚠ AC cord AS-BS <B>
23*C	253193HIT	1	⚠ AC cord AS-CEE <C>
23*AH	253192HIT	1	⚠ AC cord AS-UC-6#18(SPT-2) <AH>
26	838430088	6	Self tapping screw 3TTB+8B(BC) for Cover
27	838130088	26	Self tapping screw 3TTB+8B
28	838430107	2	Self tapping screw 3TTB+10S(BC) Power SW
29	838120068 or 838220068	8	Screw bind 2TTB+6B or 2TTB+6B(Ni)
P001*AH	1A788525-1A	1	NADIS-6425-1A Display PCB Ass'y
P002*AH	1A788526-1A	1	NARF-6426-1A Tuner PCB Ass'y
P003*AH	1A788527-1A	1	NAPS-6427-1A Power supply PCB Ass'y
P004*AH	1A788528-1A	1	NADG-6428-1A NAD link PCB Ass'y
P005*AH	1A788529-1A	1	NASW-6429-1A Switch PCB Ass'y
P001*B1,B,C	1A788525-1B	1	NADIS-6425-1B Display PCB Ass'y
P002*B1,B,C	1A788526-1B	1	NARF-6426-1B Tuner PCB Ass'y
P003*B1,B,C	1A788527-1B	1	NAPS-6427-1B Power supply PCB Ass'y
P004*B1,B,C	1A788528-1B	1	NADG-6428-1B NAD link PCB Ass'y
P005*B1,B,C	1A788529-1B	1	NASW-6429-1B Switch PCB Ass'y

ELECTRICAL PARTS LIST

CIRCUIT No.	PART. No.	DESCRIPTION
P002: Tuner PC Board (NARF-6426)		
Capacitors		
C101,C127,C133, C163	354741019	100 μ F,16V Elect.
C130,C155,C192	354780229	2.2 μ F,50V Elect.
C131	374722234	0.022 μ F,50V Plastic.
C132	354783399	0.33 μ F,50V Elect.
C146,C157,C173	354780109	1 μ F,50V Elect.
C148,C154,C161, C167,C168,C178, C179,C187,C194, C196	354781009	10 μ F,50V Elect.
C150*AH	374722234	0.022 μ F,50V Plastic.
C150*B1,B,C	374721534	0.015 μ F,50V Plastic.
C153	374724724	4700pF,50V Plastic.
C156	354780479	4.7 μ F,50V Elect.
C162	354744709	47 μ F,16V Elect.
C164	354742209	22 μ F,16V Elect.
C166	374724734	0.047 μ F,50V Plastic.
C169,C170*AH	374721524	1500pF,50V Plastic.
C169,C170*B1,B,C	374721024	1000pF,50V Plastic.
C172	354782299	0.22 μ F,50V Elect.
C174	354780339	2.2 μ F,50V Elect.
C175	370134714	470pF,100V Plastic.
C176,C177	374721224	1200pF,50V Plastic.
C195	374725614	560pF,50V Plastic.
Diodes		
D102,D173	223163	1SS133
Coils		
L101	233469	NFIF-4087 IF Trans
L102	233470	NFIF-4088 IF Trans
L103*B1,B,C	232164	NMC-4082 MPX Coil
L105	231226	NMRF-7069 RF Coil
L106	232166	NMIF-4089 IF Trans
L107,L108	232165	NMC-4083 MPX Coil
L701,L702,L703	233454M022	NCH-1452 022M Choke
Terminals		
P101*AH	25060233	NTM-4PDML155 Antenna
P101+B1,B,C	25060117	NTM-2PDML051
P101a*AH	27150397	Shield plate
P101a*B1,B,C	27150432	Shield plate
P141,P161	25055038	NPLG-2P29 Terminal
ICs		
Q121	22241076 or 22240090	LM7001J or LM7001
Q141	22240039	LA1266
Q161	22240242	AN7470
Q191	22241124	BU1922
Transistors		
Q101,Q102	2215063	TR 2SC2669-0
Q103,Q104*B1,B,C	2215063	TR 2SC2669-0
Q122,Q142,Q143	2213510 or 2214350	DTA114ES or RN2202
Q123	2212445	2SK365-GR
Q124,Q162	2213284	2SC1740S-R
Q171	2213290 or 2214230 or 2214230	DTC114ES or RN1202 or RN1202
Q172	2215196	2SK364-BL
Q173,Q174	2215024	2SD1468S-R
Q175	2213510	DTA114ES

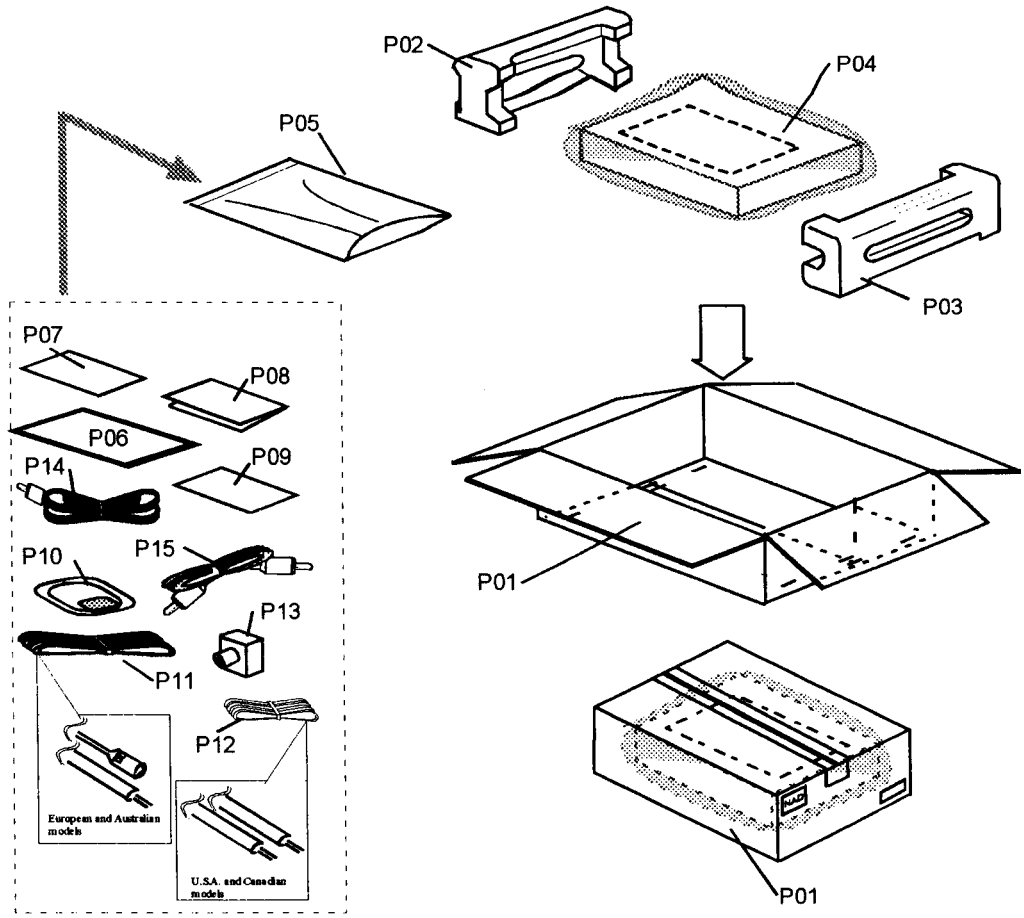
CIRCUIT No.	PART. No.	DESCRIPTION
Resistors		
R153	5210265	N06HR50KBC Trim
R165	5210266	N06HR100KBC Trim
R176	5210261	N06HR5KBC Trim
Frontends		
U001*B1,B,C	240089	FE415-G11
U001*AH	240098	ENV172D1G1
Resonators		
X101,X102	3010071	SFE-10.7MA5 RED Ceramic filter
X103*B1,B,C	3010130	SFE10.7MZ2K Ceramic filter
X103*AH	3010071	SFE-10.7MA5 RED Ceramic filter
X105	3010123	SFZ450JL Ceramic filter
X121	3010141	XTL-7.2M Ceramic filter
X104	5671-7137C	BFU450C4N Ceramic filter
X191	3010203	AF6146CG Crystal OSC.
Others		
JL161a	25051107	NSCT-3P894 Wire holder
JL701b	25051826 or 25050959	NSCT-19P1613 or NSCT-19P746 Socket
P001: Display PC Board (NADIS-6425)		
Capacitors		
C709	375524744	0.47 μ F,50V Plastic
C706	355721019	100 μ F,6.3V elect.
C702	355741009	10 μ F,16V elect.
C701,C703	355780109	1 μ F,50V elect.
C712	3000076	EECS5R5T104 EDL 0.1 μ F
Diodes		
D701	224470913	MTZJ9.1C
D702,D704-D707	223163	1SS133
D708,D710	224470562	MTZJ5.6B
Others		
JL701a	25051863 or 25050925	NSCT-19P1650 or NSCT-19P712 Socket
JL703a	25051090	NSCT-6P877 Wire holder
FL Tube		
Q701	212194	13-ST-31GK
IC		
Q705	22241255 or 22241256	μ PD78044FGF-114 or μ PD78P048AGF-(724)
Transistors		
Q704	2213284	2SC1740S-R
Q706	2213160	DTC124ES
Switches		
S710-S719	25035675	NPS-111-111-S628
Resonator		
X701	3010163	CST4.19MGW Ceramic filter

CIRCUIT No.	PART. No.	DESCRIPTION
P003: Power Transformer PC Board (NAPS-6427)		
Capacitors		
C704,C714,C719	354721019	100 μ F,6.3V Elect.
C953,C954	354744709	47 μ F,16V Elect.
C707	354780109	1 μ F,50V Elect.
C956	354780479	4.7 μ F,50V Elect.
C952,C955, C958-C960	354781009	10 μ F,50V Elect.
C957	354782209	22 μ F,50V Elect.
C951	354753329	3300 μ F,25V Elect.
Diodes		
D958	22380260 or	RL1N4003 or
D951,D957,D956	22380032 or 22380035	1SR139-100 or GP104003E
D959	223163	1SS133
D960	224472704	MTZJ27D Zener
Ics		
Q952	222780125	78M12HF
Q953	222780565JR	78M56(NJM78M56FA)
Q952a	27160209	Heat sink(RAD-67)
Q952b	838430107	3TTB+10S(BC) Screw
Transistors		
Q954,Q955	2211455	2SA1015-GR
Power Transformers		
T901*B1,B,C	2301359	⚠ NPT-1350P
T901*AH	2301358	⚠ NPT-1350D
Resistors		
R901*AH	431533355	⚠ RC1/2GFKUL-3.3M Solid
R951*AH	453530224	⚠ RNU1/2WCJ-2.2 Metal
Others		
JL951a	25051107	NSCT-3P894 Wire holder
JL952a	25051111	NSCT-7P898 Wire holder
P901a	25055675	NPLG-2P631 Plug (AC
Q701a	27191056	Holder (FL)

CIRCUIT No.	PART. No.	DESCRIPTION
P004: NAD link PC Board (NADG-6428)		
Capacitors		
C753	354781099	0.1 μ F,50V Elect.
C792	374721044	0.1 μ F,50V Plastic
Diodes		
D751-D755	223163	1SS133
ICs		
Q751	222740005	74HC00P
Q752	22241266	Z86C0812PSC-R2536
Coil		
L751	233454K220	NCH-1452 220K Choke coil
Resonator		
X751	3010252	CST12.0MTW
Pin jacks		
P163	25045333 or 25045461	NPJ-2PDBL185 or NPJ-2PDBL282
P751	25045568	NPJ-2PDY383 NAD link
Sockets		
JL161b	25050267	NSCT-3P95
JL951b	25050267	NSCT-3P95
JL952b	25050271	NSCT-7P99
Others		
JL703b	25055627	NPLG-6P589 Plug

P005: Switch PC Board (NASW-6429)		
C901a	27301216	SB1925A Capacitor's cover
C901	3500191	⚠ DE7150F-103M IS capacitor
S901	25035550	⚠ NPS-111-L512P Power Switch

PACKING DIAGRAM



PARTS LIST

Ref.No.	Part No.	Q'ty	Description
P01*B1,B,C	29053351	1	Carton C440
P01*AH	29053321	1	Carton C440
P02	29091692	1	Pad (L)
P03	29091693	1	Pad (R)
P04	29100037-1	1	Polybag
P05	29100097-1A	1	Polybag 350*250 for instruction manual
P06	29342610	1	Instruction manual U7(424)
P07*B	29355233	1	Instruction sheet
P08*AH	29355233	1	Instruction sheet
P09*AH	29365078	1	Warranty card

Ref.No.	Part No.	Q'ty	Description
P10	232140	1	Antenna coil NMA-3057
P11*B1,B,C	292112	1	FM antenna AS (connect type)
P12*AH	292111	1	FM antenna AS
P13*AH	25065462	1	FM adapter YAE21-0237 (300 ohm to 75 ohm)
P14	2010317	1	NAD link cable
P15	2010244 or 2010326	1	Pin cord AS

NOTE: <AH>: U.S.A., Canadian model only
<B>: U.K. model only
<B1>: Australian model only
<C>: European model only

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